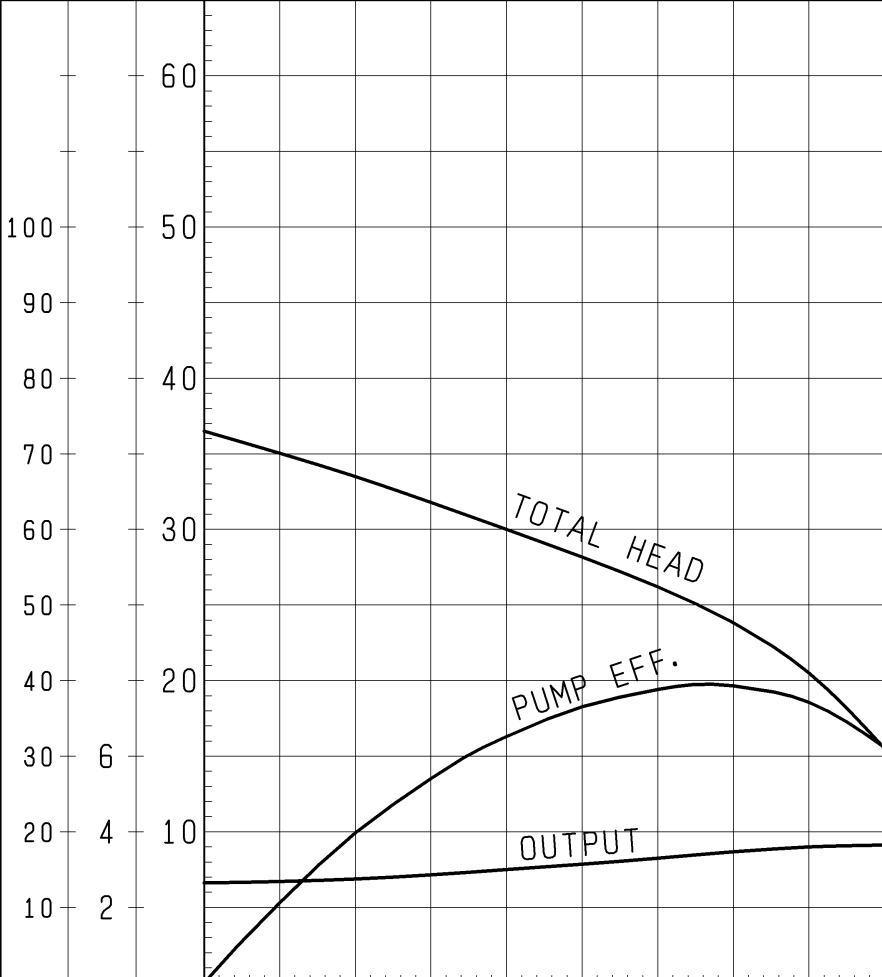
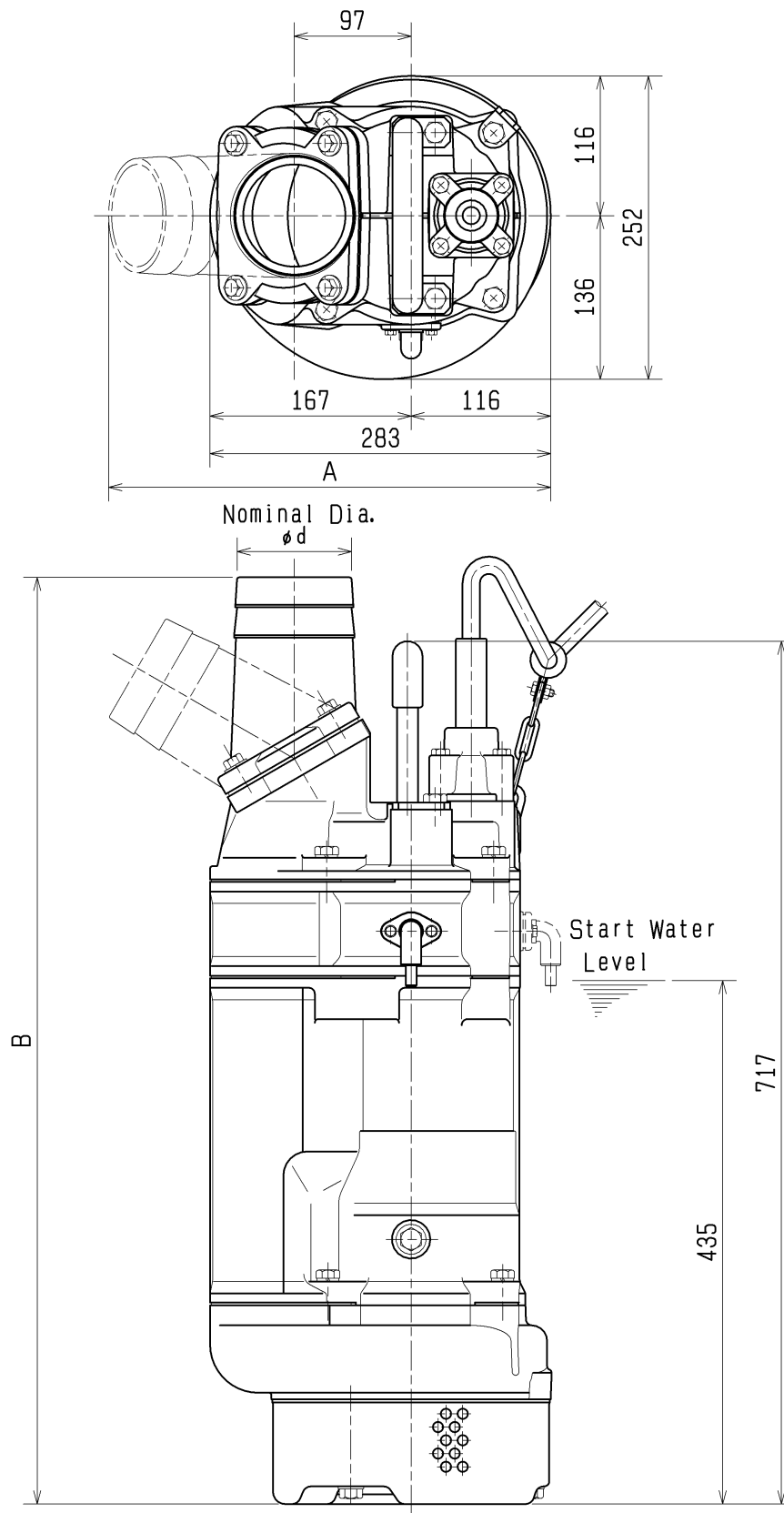


SPECIFICATIONS	Model	KTZE23.7	KTZE-series								
			3.7kW, 3-phase								
<p>Type of Pump Submersible automatic high head drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 50mm, Hose Coupling</p> <p>Motor Output 3.7kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table><tr><td>50Hz</td><td>60Hz</td></tr><tr><td>380V – 8.0A</td><td>220V – 13.8A</td></tr><tr><td>400V – 7.7A</td><td>380V – 8.2A</td></tr><tr><td>415V – 7.5A</td><td>440V – 7.2A</td></tr></table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 2.0mm², O.D. 14.4mm</p> <p>Dry Weight (excluding cable) 69kg</p>		50Hz	60Hz	380V – 8.0A	220V – 13.8A	400V – 7.7A	380V – 8.2A	415V – 7.5A	440V – 7.2A	<p>Impeller Semi-open Impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ8.5mm 60Hz – ϕ8.5mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”, it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER (Patented) Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1250ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p>	
50Hz	60Hz										
380V – 8.0A	220V – 13.8A										
400V – 7.7A	380V – 8.2A										
415V – 7.5A	440V – 7.2A										
<p>Optional Accessory</p> <p>Extension Electrode</p>											
TSURUMI MANUFACTURING CO., LTD.											

		NO.		A-21039-1																													
PUMP PERFORMANCE CURVES																																	
TYPE		SUBMERSIBLE GENERAL DEWATERING PUMP		MODEL																													
		KTZE23.7 -51		FREQUENCY																													
				50 Hz																													
CUSTOMER'S NAME																																	
EQUIPMENT TITLE																																	
NO.																																	
		STANDARD SPECIFICATIONS		REQUIRED SPECIFICATIONS																													
DISCHARGE BORE		50 mm		mm																													
TOTAL HEAD		MAX. 36.5 m		m																													
CAPACITY		MAX. 0.45 m ³ /min		m ³ /min																													
MOTOR OUTPUT		3.7 kW		kW																													
PHASE × VOLTAGE		3 φ × V		φ × V																													
CURRENT		A		A																													
POLES / REVOLUTION		2 P / S. S. 3000 min ⁻¹		P / min ⁻¹																													
STARTING METHOD		DIRECT ON LINE																															
INSULATION CLASS		F																															
				REMARKS:																													
 <p>The graph displays three performance curves for the pump. The x-axis represents Capacity in m³/min, ranging from 0 to 0.6. The left y-axis represents Head in meters (m) and Efficiency in percent (%), ranging from 0 to 100. The right y-axis represents Motor Output in kW, ranging from 0 to 10. The 'TOTAL HEAD' curve starts at approximately 73m at 0 capacity and decreases to about 32m at 0.45 m³/min. The 'PUMP EFF.' curve starts at 0% at 0 capacity, peaks at approximately 20% efficiency at 0.35 m³/min, and then decreases. The 'OUTPUT' curve starts at approximately 2.5 kW at 0 capacity and increases slightly to about 3.5 kW at 0.45 m³/min.</p> <table border="1"><thead><tr><th>CAPACITY (m³/min)</th><th>TOTAL HEAD (m)</th><th>PUMP EFF. (%)</th><th>OUTPUT (kW)</th></tr></thead><tbody><tr><td>0.0</td><td>73</td><td>0</td><td>2.5</td></tr><tr><td>0.1</td><td>68</td><td>10</td><td>2.6</td></tr><tr><td>0.2</td><td>62</td><td>18</td><td>2.7</td></tr><tr><td>0.3</td><td>55</td><td>19</td><td>2.8</td></tr><tr><td>0.4</td><td>45</td><td>18</td><td>3.0</td></tr><tr><td>0.45</td><td>32</td><td>15</td><td>3.5</td></tr></tbody></table>				CAPACITY (m ³ /min)	TOTAL HEAD (m)	PUMP EFF. (%)	OUTPUT (kW)	0.0	73	0	2.5	0.1	68	10	2.6	0.2	62	18	2.7	0.3	55	19	2.8	0.4	45	18	3.0	0.45	32	15	3.5		
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TSURUMI MFG. CO., LTD.																																	

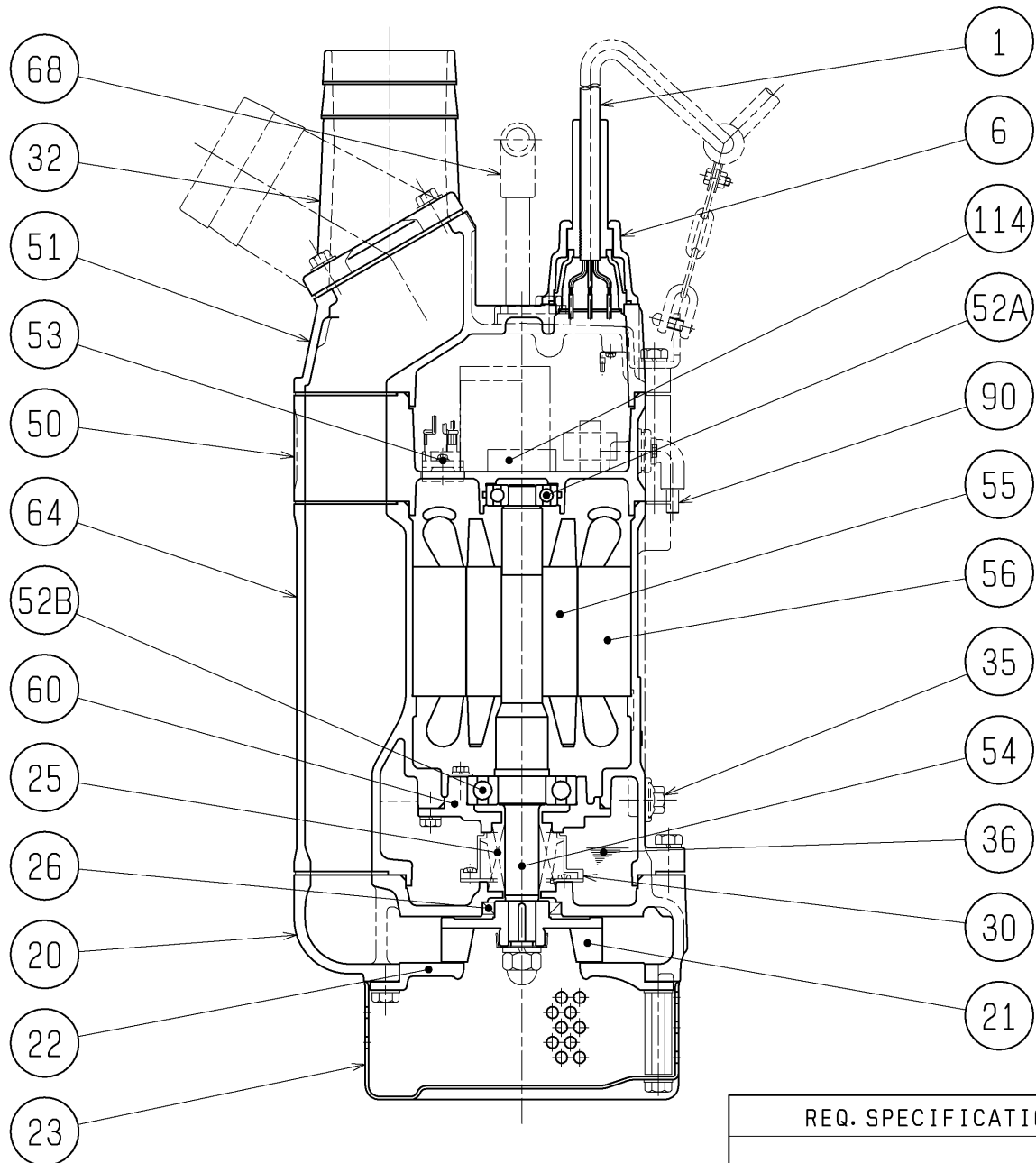
DIMENSION DRAWING			No.		No.	A-21046-1
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP		MODEL	KTZE23.7 -51/61, KTZE33.7 -51/61 KTZE43.7 -51/61		



※excluding cable

MODEL	d	A	B	Approximate Weight (※)
KTZE23.7-51/61	50	342	755	69kg
KTZE33.7-51/61	80	347	755	69kg
KTZE43.7-51/61	100	367	770	69kg

SECTIONAL DRAWING		No.	No.	A-21048-2
TYPE	SUBMERSIBLE GENERAL DEWATERING PUMP	MODEL	KTZE23.7 -51/61, KTZE33.7 -51/61 KTZE43.7 -51/61	



REQ. SPECIFICATION

※ the wetted part

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	Chloroprene Sheath	52A	Upper Bearing	1	6304ZZC3
6	Stuffing Box	1	Gray Iron Casting	52B	Lower Bearing	1	6307ZZC3
20	Pump Casing	1	Gray Iron Casting	53	Motor Protector	1	
21	Impeller	1	Chromium Iron Casting	54	Shaft	1	Stainless Steel 420J2(※)
22	Suction Cover	1	Ductile Iron Casting	55	Rotor	1	
23	Strainer Stand	1	Steel Sheet	56	Stator	1	
25	Mechanical Seal	1	H-25T	60	Bearing Housing	1	Gray Iron Casting
26	Oil Seal	1	TC40588	64	Motor Frame	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	68	Handle	1	Carbon Steel Pipe & Structure Steel
32	Hose Coupling	1	Aluminium Die Casting	90	Level Sensor(Electrode)	1	
35	Oil Plug	1	Stainless Steel 304	114	Relay Unit	1	
36	Lubricant		Turbine Oil (ISO VG32)				
50	Motor Bracket	1	Gray Iron Casting				
51	Head Cover	1	Gray Iron Casting				